

Datasheet for ABIN7554928  
**PHF19 Protein (AA 1-580) (His tag)**



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## Overview

Quantity:	1 mg
Target:	PHF19
Protein Characteristics:	AA 1-580
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PHF19 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant PHF19 Protein expressed in mammalian cells.
Sequence:	<p>MENRALDPGT RDSYGATSHL PNKGALAKVK NNFKDLMSKL TEGQYVLCRW TDGLYYLGKI KRVSSSKQSC LVTFEDNSKY WWLWKDIQHA GVPGECPKCIN ICLGKTSGPL NEILICGKCG LGYHQQCHIP IAGSADQPLL TPWFCRRCIF ALAVRKGGAL KKGAIARTLQ AVKMLVLSYQP EELEWDSPHR TNQQQCYYCYC GGPGEWYLRM LQCYRCRQWF HEACTQCLNE PMMFGDRFYL FFCSVCNQGP EYIERLPLRW VDVVHLALYN LGVQSKKKYF DFEELAFVN HHWELLQLGK LTSTPVTDRG PHLLNALNSY KSRFLCGKEI KKKKCFRLR IRVPPNPPGK LLPDKLLPN ENSASSELRK RGKSKPGLLP HEFQQQKRRV YRRKRSKFL EDIAPSSDFT SAWSTNHHLA SIFDFTLDEI QSLKSASSGQ TFFSDVDSTD AASTSGSAST SLSYDSRWTG GSRKRKLAAG AYMPLRAKRW AAELDGRCPD DSSAEGASVP ERPDEGIDSH TFEISEDSDS SLSHLKSSIT NYFGAAGRLA CGEKYQVLAR RVTPEGKVQY LVEWEGTTPY <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special</b></p>

## Product Details

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### **request, please contact us.**

**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

**Characteristics:** **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

**Grade:** custom-made

## Target Details

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**Target:** PHF19

**Alternative Name:** PHF19 ([PHF19 Products](#))

**Background:** PHD finger protein 19 (Polycomb-like protein 3) (hPCL3),FUNCTION: Polycomb group (PcG) protein that specifically binds histone H3 trimethylated at 'Lys-36' (H3K36me3) and recruits the PRC2 complex, thus enhancing PRC2 H3K27me3 methylation activity (PubMed:15563832, PubMed:18691976, PubMed:23160351, PubMed:23228662, PubMed:23273982, PubMed:29499137, PubMed:23104054, PubMed:31959557). Probably involved in the transition from an active state to a repressed state in embryonic stem cells: acts by binding to H3K36me3, a mark for transcriptional activation, and recruiting H3K36me3 histone demethylases RIOX1 or KDM2B, leading to demethylation of H3K36 and recruitment of the PRC2 complex that mediates H3K27me3 methylation, followed by de novo silencing (PubMed:23160351). Recruits the PRC2 complex to CpG islands and contributes to embryonic

## Target Details

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stem cell self-renewal. Also binds histone H3 dimethylated at 'Lys-36' (H3K36me2) (PubMed:23104054). Isoform 1 and isoform 2 inhibit transcription from an HSV-tk promoter (PubMed:15563832). {ECO:0000269|PubMed:15563832, ECO:0000269|PubMed:18691976, ECO:0000269|PubMed:23104054, ECO:0000269|PubMed:23160351, ECO:0000269|PubMed:23228662, ECO:0000269|PubMed:23273982, ECO:0000269|PubMed:29499137, ECO:0000269|PubMed:31959557}.

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Molecular Weight: 65.6 kDa

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UniProt: [Q5T6S3](#)

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Pathways: [Stem Cell Maintenance](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months